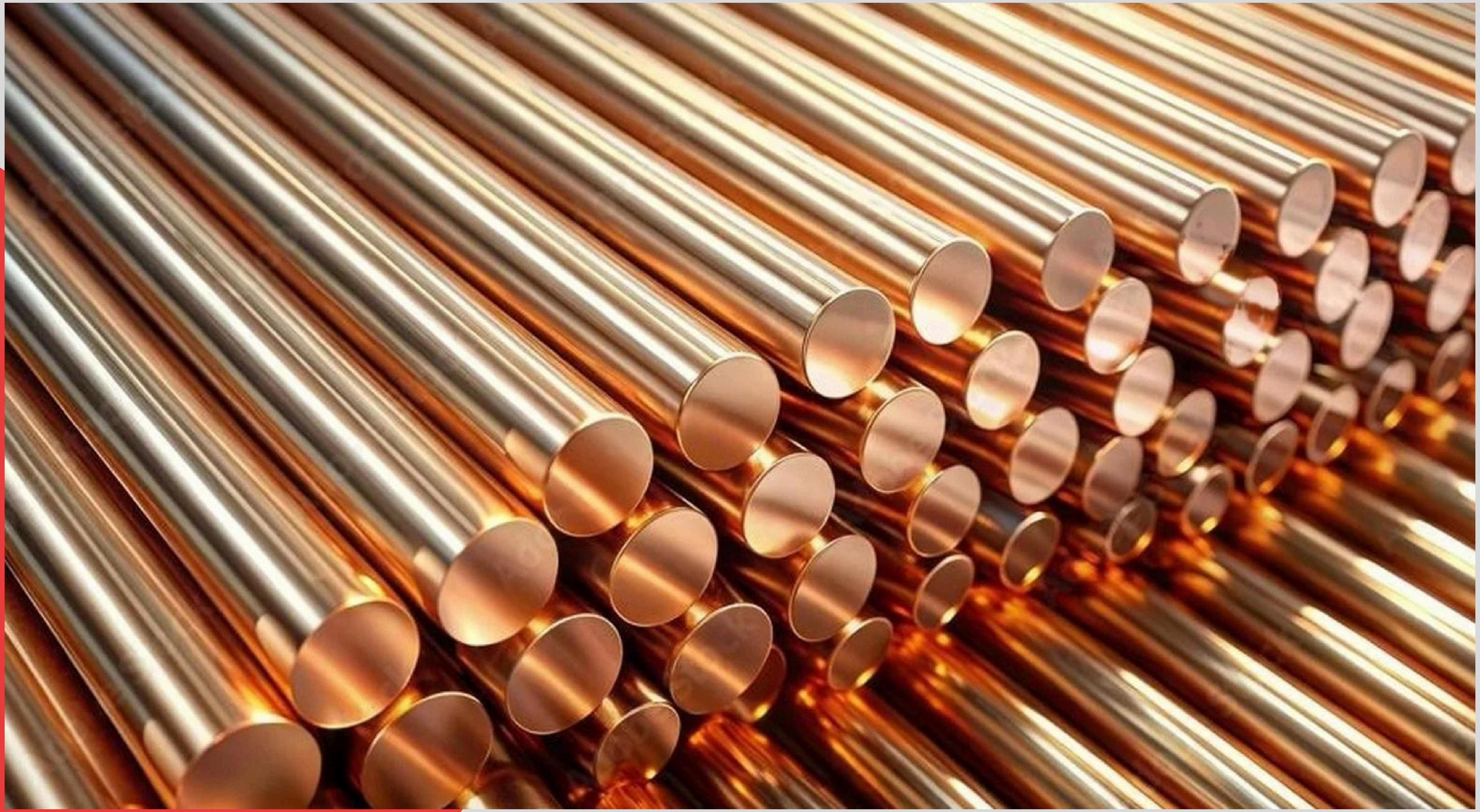
MANUFACTURING OF COPPER ROD



Copper rods are highly valued for their excellent electrical conductivity and strong resistance to corrosion. These properties make them ideal for electrical, industrial and long-term performance are essential.

Raw Material Selection of Copper Rod

- High-quality copper cathodes are selected
- Purity level is checked before production
- Raw materials are inspected for defects
- Proper storage prevents contamination
- Quality material ensures better final products

Refining and Purification of Copper Rod

Copper refining improves purity by removing slag, impurities, and unwanted particles while carefully controlling oxygen levels. Continuous monitoring of the chemical composition ensures consistent quality, resulting in enhanced electrical conductivity, durability, and overall strength of the copper.

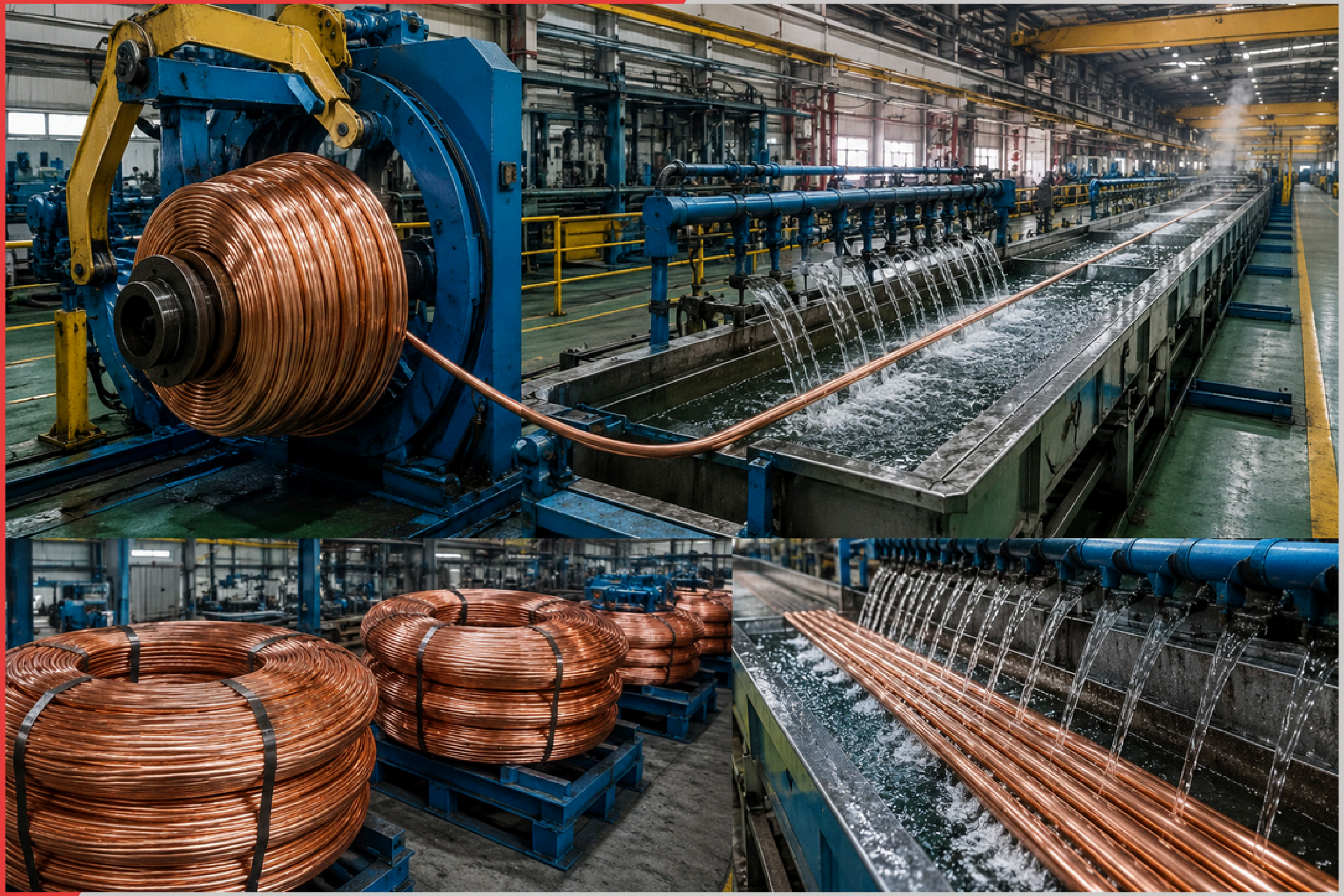
Continuous Casting Process of Copper Rod

Molten copper is cast into long continuous bars using advanced casting machines, where controlled cooling solidifies the metal evenly. This process ensures uniform dimensions, consistent quality, and improved production efficiency for further manufacturing applications.

Rolling Process of Copper Rod

Cast copper bars are processed through rolling mills where their diameter is gradually reduced to achieve the required size. The rolling process enhances surface finish, improves strength, and ensures accurate dimensions, while automated systems maintain consistent quality throughout production.

COOLING AND SURFACE TREATMENT



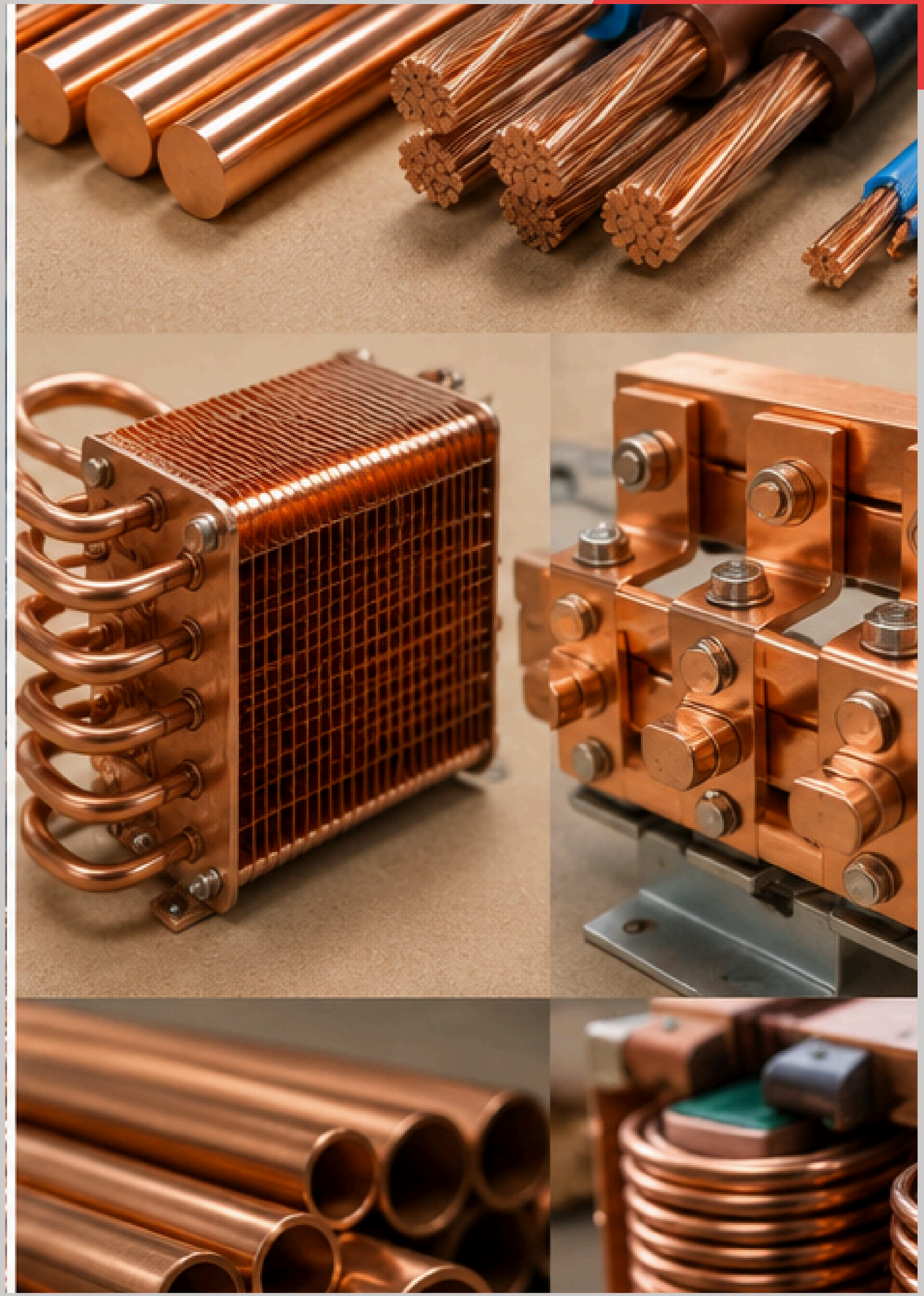
Copper rods are cooled through controlled water systems to prevent defects and maintain material quality. Surface impurities are removed during treatment, resulting in improved durability, enhanced appearance, and a smooth finish that ensures high-quality copper products.

QUALITY TESTING AND INSPECTION

- Rods are tested for conductivity and strength
- Dimensional accuracy is carefully inspected
- Surface defects are identified and corrected
- International quality standards are followed
- Final inspection ensures reliable performance

Applications of Copper Rod

- Used in electrical wiring and cables
- Applied in transformers and motors
- Important in construction and infrastructure
- Used in automotive and electronics industries
- Suitable for industrial manufacturing processes



Packaging and Storage

- Finished copper rods are bundled securely
- Protective wrapping prevents surface damage
- Labels are added for easy identification
- Stored in dry and clean warehouse conditions
- Proper packaging ensures safe transportation

Ruby COPPER

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